|              |                       |             |           |      |              |                 |         |          |                |          |          |           |          | 9/759,389 |           |           |          |            |             |          |                    |                                       | YOUNG ET AL. |          |        |         |          |               |     |                     |   |
|--------------|-----------------------|-------------|-----------|------|--------------|-----------------|---------|----------|----------------|----------|----------|-----------|----------|-----------|-----------|-----------|----------|------------|-------------|----------|--------------------|---------------------------------------|--------------|----------|--------|---------|----------|---------------|-----|---------------------|---|
|              |                       |             |           |      |              |                 |         |          |                |          |          |           | Examiner |           |           |           |          |            |             |          |                    | Art Unit                              |              |          |        |         |          | •             |     |                     |   |
| Ramy M Osman |                       |             |           |      |              |                 |         |          |                |          |          |           |          |           | 2157      |           |          |            |             |          |                    | · · · · · · · · · · · · · · · · · · · |              |          |        |         |          |               |     |                     |   |
|              | √ Rejected — (Through |             |           |      |              |                 |         |          |                |          |          |           |          | era       | al)       |           |          | Non-El     |             |          | lect               | ted                                   | ed be        |          | Appeal |         |          | ]             |     |                     |   |
|              |                       |             | Н         |      |              |                 |         | $\vdash$ | Cancelled      |          |          |           |          |           |           | -         | N        | Interferen |             |          |                    |                                       | A            |          |        |         |          | -             |     |                     |   |
|              |                       |             | =         | Allo | ÷ Restricted |                 |         |          |                |          |          | l         | l        | Int       | erte      | ren       | nce      |            | 0           | Objected |                    |                                       |              |          |        |         |          |               |     |                     |   |
|              | Cla                   |             | 10        | Date |              |                 |         |          |                | F        | Claim    |           |          |           | Date      |           |          | · ·        | <del></del> |          |                    | CI                                    | Claim        |          | Date   |         |          |               |     | $\Box$              |   |
|              | Final                 | Original    | 00%       | :    |              |                 |         |          |                | 1        | Final    | Original  |          | İ         |           |           |          |            |             | -        |                    | Final                                 | Original     |          |        |         |          |               |     |                     |   |
|              | ΙŒ                    | Ö           | M         |      |              |                 |         |          |                | ľ        | 디        | Ö         |          |           |           |           |          |            |             |          |                    | ΙŒ                                    | Ö            |          |        |         |          |               |     |                     |   |
|              |                       | <b>(1)</b>  | 1         |      | #            |                 |         |          |                |          |          | 51        |          |           |           |           |          |            |             | #        |                    |                                       | 101          |          | 1      | 二       | 丰        | #             | İ   |                     |   |
|              | OT 3                  | 3 .         | 7         |      | ┼-           | $\dashv$        | -       | $\vdash$ | $\dashv$       | -        | -        | 52<br>53  |          |           | +         | +         | $\dashv$ | ┪          | +           | +        | d                  |                                       | 102          | ╁┤       | -      | +       |          |               | ╁   | Н                   |   |
|              |                       | 4           | ~         |      |              |                 |         |          |                | . 🗀      |          | 54        |          |           | _         |           |          |            |             | 1        | 1                  |                                       | 104          |          |        |         |          |               |     |                     |   |
|              |                       | 5<br>6      | /         |      | -            | +               | - -     | -        | -              | -        | _        | 55<br>56  | -        |           | $\dashv$  | +         |          | $\dashv$   | +           | ╁        | $\left\{ \right\}$ |                                       | 105<br>106   | $\vdash$ | _      | +       |          |               | -   | Н                   |   |
|              |                       | 7           | Ø         |      |              |                 |         |          |                |          |          | 57        |          |           | $\exists$ | $\exists$ |          |            |             | 士        | ]                  |                                       | 107          |          |        |         |          |               |     |                     |   |
|              |                       | 8<br>9      | 000       |      | ┼            | +               | _       | _        | _              | _        | $\dashv$ | 58<br>59  | _        |           | $\dashv$  | $\dashv$  |          | 4          | +           | +        | -                  |                                       | 108<br>109   | Н        | -      | -       |          | +             | 1   | Ш                   |   |
|              |                       | 10          | 5         |      |              |                 |         | +-       | $\dashv$       |          |          | 60        | -        |           | +         | $\dashv$  | _        | $\dashv$   | +           | -        | ┨                  |                                       | 110          |          | +      | +-      |          | +             | ╁   | H                   |   |
|              |                       | 11          | /         |      |              |                 |         |          |                |          |          | 61        |          |           |           |           |          | _          |             |          | ]                  |                                       | 111          |          |        |         |          |               |     |                     |   |
|              |                       | 12<br>(13)  | 1         |      |              | $\perp$         | +       |          |                | -        |          | 62<br>63  |          |           | _         | +         |          |            |             | +-       | -                  |                                       | 112<br>113   | ₩        |        |         |          | +             | +   | Н                   |   |
|              |                       | 14          | 1         |      |              |                 |         |          |                |          |          | 64        |          |           |           | $\exists$ |          |            |             |          | 1                  |                                       | 114          |          |        |         |          | $\pm$         |     |                     |   |
|              | ZZ                    | 15          | Z.        |      |              |                 | $\perp$ |          |                |          | $\Box$   | 65        |          |           |           | $\perp$   |          | $\Box$     | $\perp$     | $\bot$   | ] !                |                                       | 115          |          | $\bot$ | $\perp$ |          |               |     |                     |   |
|              |                       |             | 0 0       |      | $\vdash$     | $\vdash$        | +       | $\vdash$ |                | $\vdash$ |          | 66<br>67  |          |           | 4         | $\dashv$  |          | $\dashv$   | +           | +        | -                  |                                       | 116<br>117   | $\vdash$ | +      | -       |          |               | +-  | Н                   |   |
|              |                       | 18          | 0         |      |              |                 |         |          |                |          |          | 68        |          |           |           |           |          |            |             |          | 1                  |                                       | 118          |          |        |         |          |               |     |                     |   |
|              |                       | 19<br>20    | Y         | _    | <u> </u>     |                 | - -     | -        | _              | -        |          | 69<br>70  |          |           |           | 4         | _        |            | -           | +-       | -                  |                                       | 119<br>120   |          |        | +       |          | $\bot$        | +   |                     |   |
|              | $\vdash$              | <b>(21)</b> | 5         |      | $\vdash$     | +               | +       | $\vdash$ | $\dashv$       | $\vdash$ | $\dashv$ | 71        |          | $\dashv$  | $\dashv$  | +         | $\dashv$ | -          | $\dashv$    | +        | 1                  |                                       | 120          | $\vdash$ | +      | ╁       | _        | ╁             | +-  |                     |   |
|              |                       | 22          | ~         |      |              |                 |         |          |                |          |          | 72        |          |           |           | #         |          |            |             |          |                    |                                       | 122          |          |        | 二       |          |               |     |                     |   |
|              | CE C                  | 23<br>24    |           |      |              | -               | - -     | -        | $\dashv$       | -        |          | 73<br>74  |          | _         | _         | -         |          |            | -           | $\bot$   | -                  | ļ                                     | 123<br>124   | $\vdash$ | _      | +       |          | +             | -   |                     |   |
|              |                       | 25          | ~         |      |              |                 | -       | +        | $\dashv$       | -        |          | 75        | _        |           |           | _         | $\dashv$ |            |             | +        | 1                  |                                       | 125          | H        |        | +       |          | +             | +   |                     |   |
|              |                       | 26          | <b>/</b>  |      |              |                 |         |          |                |          |          | 76        |          |           |           |           |          |            |             |          | 1                  | ,                                     | 126          |          |        |         |          |               |     |                     |   |
|              |                       | 27<br>28    | 0         |      |              |                 | +       | $\vdash$ | 4              | $\vdash$ | $\dashv$ | 77<br>78  |          | _         | _         | 4         | $\dashv$ |            | +           | +        | -                  | ļ                                     | 127<br>128   | Н        |        | +-      |          | +             | _   | Ш                   |   |
|              |                       |             |           | -    |              | $\vdash$        | +       | $\vdash$ | $\dashv$       | $\vdash$ | +        | 79        |          | $\dashv$  |           | $\forall$ | 一        | $\dashv$   | $\dashv$    | +-       | ┨                  |                                       | 129          |          | -      | +       |          | +             | +-  | $\vdash$            |   |
| •            |                       | 30          | 00        |      |              |                 |         |          |                |          |          | 80        |          |           |           |           |          |            |             |          | ]                  |                                       | 130          |          |        |         |          | I             | 1   |                     |   |
|              |                       | 31<br>32    | 7         |      | $\vdash$     | +               | +       | $\vdash$ | $\dashv$       | $\vdash$ | _        | 81<br>82  |          | -         | _         | -         |          |            | ÷           | +        | -                  | _                                     | 131          | Н        |        | +-      | $\vdash$ | +             | +   |                     |   |
|              |                       | 33          | Ť         |      |              |                 |         |          |                | L        |          | 83        | _        |           | $\exists$ |           |          |            |             | $\top$   | 1                  |                                       | 133          |          | $\top$ |         |          | 1             |     |                     |   |
|              |                       | 34          |           |      |              | 4               | 4       | ļ        |                | -        |          | 84        |          |           |           | _         | _        | _          | 4-          |          | -                  |                                       | 134          |          |        |         | Ц.       | $\bot$        |     |                     |   |
|              | $\vdash$              | 35<br>36    |           |      | $\vdash$     | +               | +-      | $\vdash$ |                | H        | -        | 85<br>86  |          | $\dashv$  | -         | +         |          | $\dashv$   | +           | ╫        | ┨                  |                                       | 135<br>136   |          | +      | +       | -        | +-            | +   | $\vdash$            |   |
|              |                       | 37          |           |      |              |                 |         |          |                |          |          | 87        |          |           |           |           |          |            |             |          | 1                  |                                       | 137          |          |        |         |          | $\pm$         |     |                     |   |
|              |                       | 38<br>39    | Н         |      |              | $\perp$         | +       | $\vdash$ | $\blacksquare$ | L        | $\dashv$ | 88<br>89  | _        |           | _         | 4         |          | _          | -           |          | -                  |                                       | 138<br>139   | $\vdash$ |        | _       |          | _             | ╀_  |                     |   |
|              | $\vdash$              | 40          | Н         |      | $\vdash$     | +               | +       | +        | -              | $\vdash$ |          | 90        |          | $\dashv$  | $\dashv$  | $\dashv$  | -        | -          | +           | +        | -                  |                                       | 140          |          | +      | -       |          | +             | +   | $\vdash$            |   |
|              |                       | 41          |           |      |              |                 | $\perp$ |          |                |          |          | 91        |          |           |           | $\perp$   |          |            | 工           | I        | 1 .                |                                       | 141          | П        |        |         |          |               |     |                     |   |
|              | $\vdash$              | 42<br>43    | Н         | _    | -            | $\vdash \vdash$ | +       | $\vdash$ | $\Box$         | $\vdash$ |          | 92<br>93  | L.,      |           |           | +         | $\dashv$ | $\dashv$   | +           | +        | $\left\{ \right.$  | <u> </u>                              | 142<br>143   | $\sqcup$ | _      | 1       |          | $\perp$       | 1   | $\vdash \downarrow$ |   |
|              |                       | 44          | H         |      | $\vdash$     | +               | +       | $\vdash$ | $\exists$      | $\vdash$ |          | 94        |          |           | $\dashv$  | $\dashv$  | $\dashv$ | $\dashv$   | +           | +        | 1                  |                                       | 144          |          | +      | +       | $\vdash$ | ╁             | +   | $\vdash$            |   |
|              |                       | 45          |           |      |              |                 | 1       | $\Box$   |                |          |          | 95        |          |           | _         |           |          |            |             |          | ]                  |                                       | 145          |          | #      |         |          |               | #   |                     |   |
|              | $\vdash$              | 46<br>47    | H         |      | $\vdash$     | $\vdash$        | +-      | $\vdash$ | $\dashv$       | $\vdash$ |          | 96<br>97  | Н        | $\dashv$  | $\dashv$  | $\dashv$  | -        |            | -           | +-       | $\frac{1}{2}$      | -                                     | 146<br>147   | $\vdash$ | +      | +-      |          |               | -   | $\vdash \vdash$     | ı |
|              |                       | 48          |           |      |              |                 | $\pm$   |          | $\exists$      |          | _        | 98        | H        |           |           | _         | _        | _          | $\exists$   | +        |                    |                                       | 148          |          | +      | +-      | +        | +             | +   | $\vdash$            | ı |
|              | $\vdash \dashv$       | 49<br>50    | $\square$ | _[_  | F            | $\perp I$       |         |          | $\Box$         |          | $\Box$   | 99<br>100 | П        | $\Box$    | $\Box$    | 7         | $\Box$   | $\Box$     |             | T        | ]                  |                                       | 149          |          | $\Box$ | 1       |          | ightharpoonup | - - |                     |   |
|              | ıl                    | JU          | 1         |      | 1            | 1               | - 1     | 1 1      | 1 <b>1</b>     | 1        |          | 100       | 1        | - 1       | - 1       | - 1       | - 1      |            | - 1         | 1        | 1                  | ı                                     | 150          | 1 1      | - 1    | 1       | i I      | - 1           | 1   | ı I                 |   |

Application No.

Index of Claims

Applicant(s)